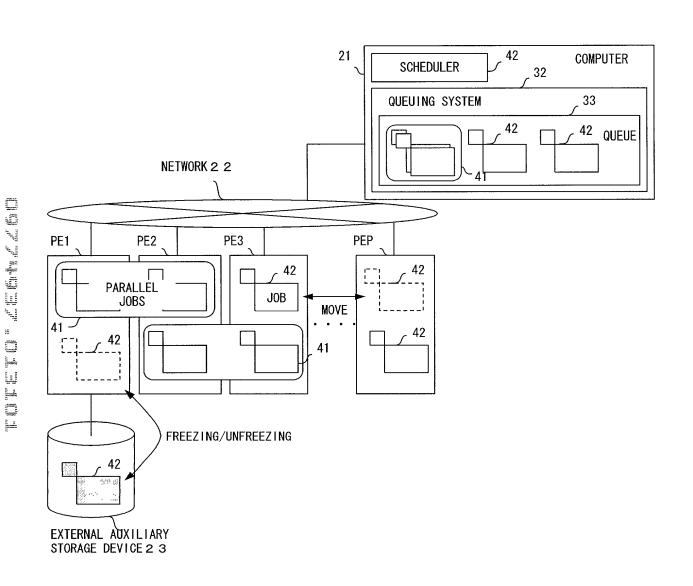
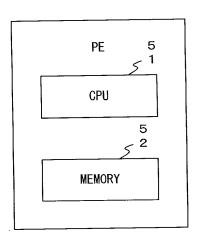


FIG. 1



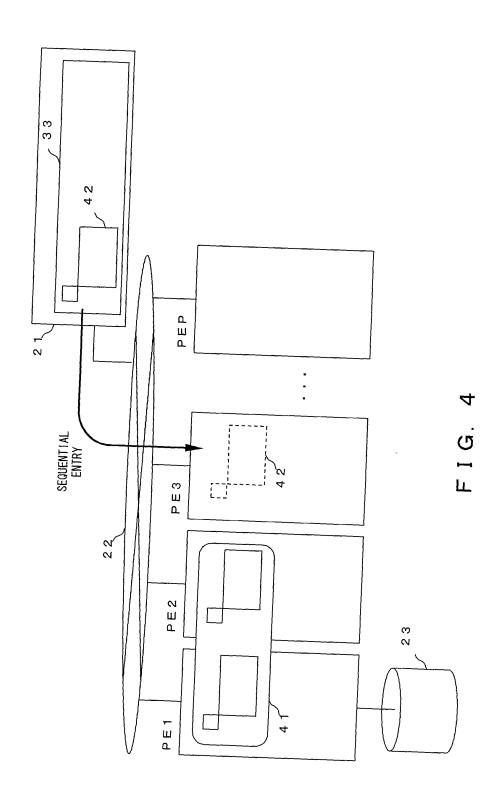
F I G. 2

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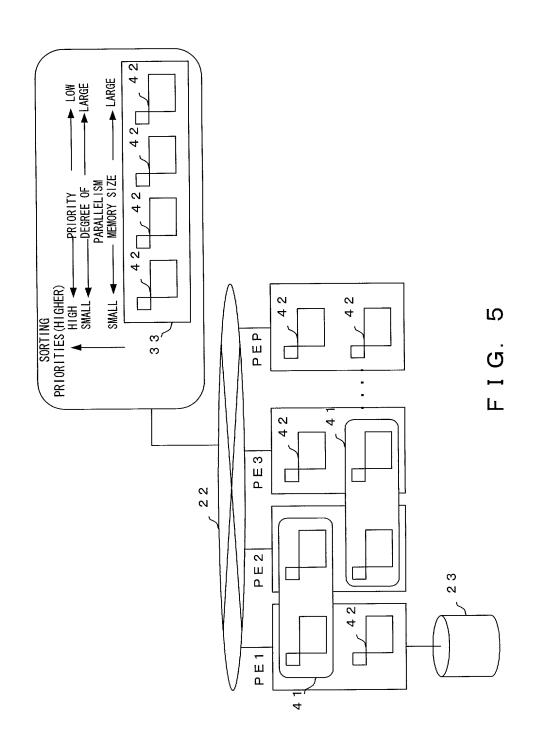


F I G. 3

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Greer, Burns & Crain, Ltd. (Patrick Burns)
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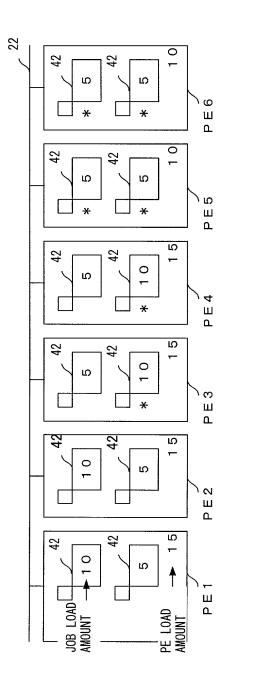
SCHEDULING APPARATUS PERFORMING ...
Koichiro Yamashita
Greer, Burns & Crain, Ltd. (Patrick Burns)
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N 2 က က 2 9 က Ω 4 2 Ø INFORMATION TABLE ሲ ٦ . 4 2 $^{\circ}$ Ø 4 ПР F I G. 6 2 Д 5 Ø 4 PE3 Job_00 2 2 E 2 Д 23 4 2 Job_ZZ_do[PE1 4

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| JOB NAME | JOB 1D | PRIORITY | DEGREE OF PARALLELISM | MEMORY SIZE | JOB ENTRY TIME | IDLE TIME |
|------------|--------|----------|-----------------------|-------------|----------------|-----------|
| XX_d o i | 105 | ļ | 9 | 100 | 990802083000 | 0 |
| job_AA | 110 | - | 8 | 100 | 990802090000 | 0 |
| job_BB | 107 | - | 9 | 20 | 990802084500 | 0 |
| Y Y −d o į | 66 | 2 | 8 | 100 | 990802080000 | 0 |
| | | | | | | |
| Job_ZZ | 100 | 10 | 1 | 20 | 990802081000 | 5 |
| Job_CC | 123 | 10 | 2 | 22 | 990802081500 | 10 |

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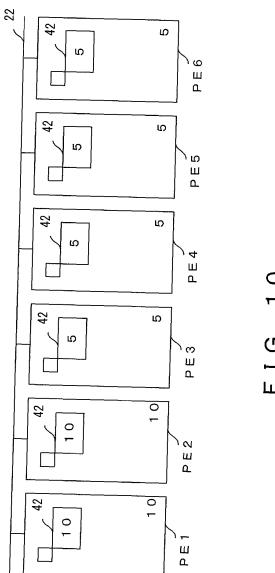


F I G. 8

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22 0 0 PE5 LIGHT 42 വ ග Ŋ 42 ល Ŋ PE3 D 42 0 PE2 HEAVY Ŋ 42 10 വ PE1 HEAVY

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42 SUSPENDED SUSPENDED 42 Ŋ Ю PE4 42 Ŋ Ŋ (1) Ш α. 10 42 0 0 Ш Ф 1 0 42 0

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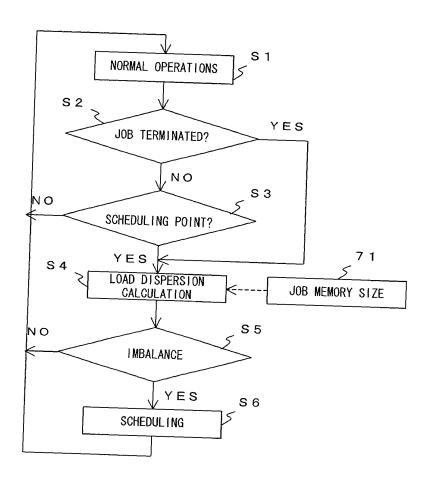


FIG. 12

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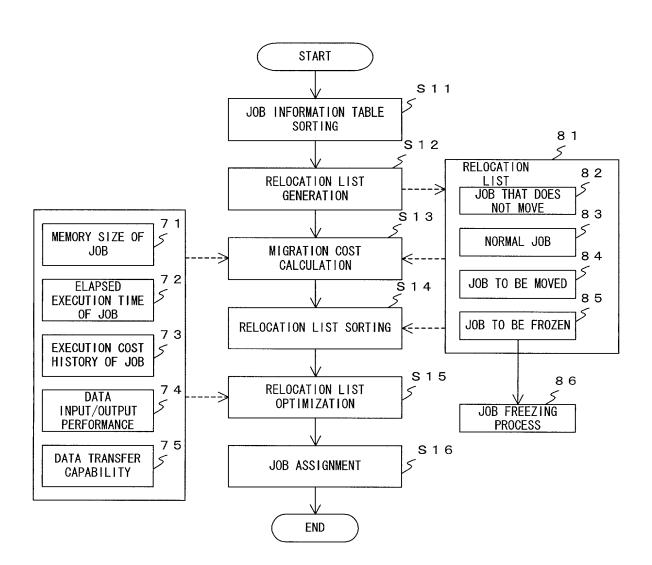


FIG. 13

SCHEDULING APPARATUS PERFORMING ... Koichiro Yamashita Greer, Burns & Crain, Ltd. (Patrick Burns) Ref. No. 1503.65173 Sheet 14 of 21 (312) 360 0080

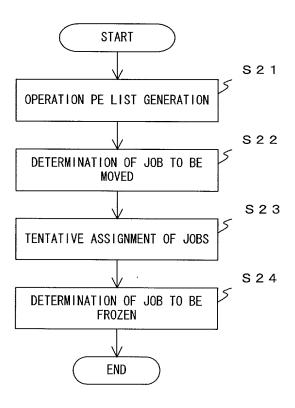
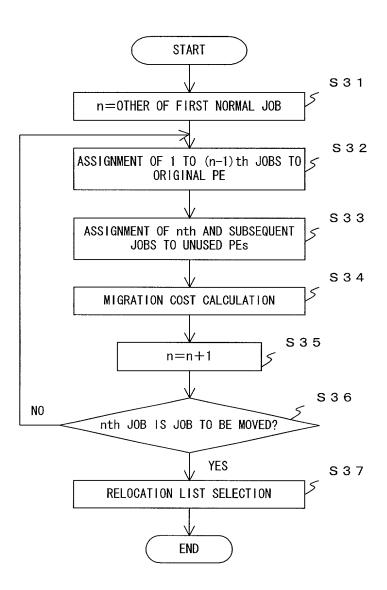


FIG. 14



F I G. 15

SCHEDULING APPARATUS PERFORMING ...

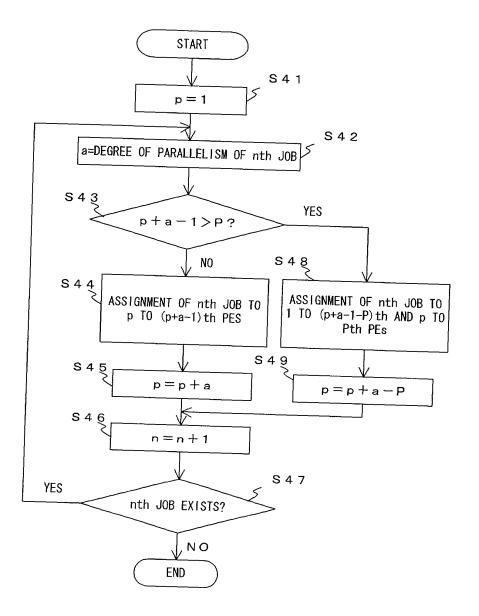
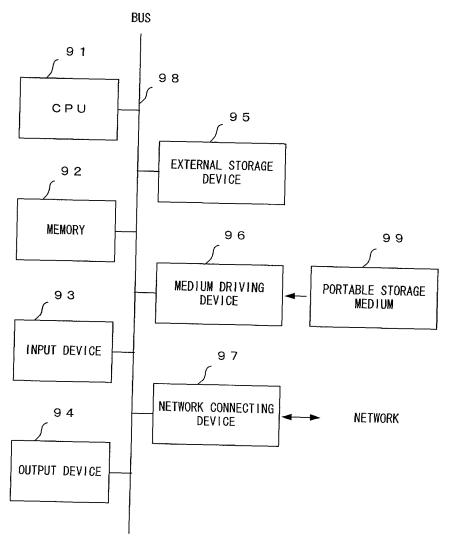
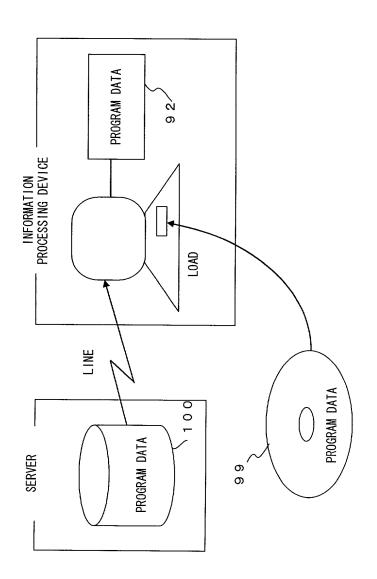


FIG. 16



FIG, 17

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F I G. 18

SCHEDULING APPARATUS PERFORMING ...
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| | SEQUENTI AL EXECUTION | SEQUENTIAL SECUENTIAL SECUENTIAL | 4 | HERARCHICAL SCHEDULING | ILING |
|--------------------------------------|--------------------------|---------------------------------------|----------------------|---|----------------------|
| | | | 80=25 | § 0=50 | 80=75 |
| TOTAL EXECUTION TIME [sec] | 8.56×10 ⁶ | $8.56 \times 10^6 \ 6.22 \times 10^6$ | 5.48×10 ⁶ | 5.62×10 ⁶ 5.71×10 ⁶ | 5.71×10 ⁶ |
| PERFORMANCE RATIO (SEQUENCE == 1) | 1 | 0.72 | 0.64 | 0.65 | 99.0 |
| PERCENTAGE OF MEMORY USE[%] | 23 | 34 | 52 | 49 | 48 |

F I G. 19

SCHEDULING APPARATUS PERFORMING ... Koichiro Yamashita Greer, Burns & Crain, Ltd. (Patrick Burns) Ref. No. 1503.65173 Sheet 20 of 21 (312) 360 0080

| | SEQUENT I AL | EQUENTIAL CHEDIII ING | - | IIERARCHICAL SCHEDULING | LING |
|---------------------------------------|--------------------|---|----------------------|--|----------------------|
| | רארסווסו | מסבימר ססוורשמר וואמ | 80=25 | 80=50 | 80=75 |
| TOTAL EXECUTION TIME [sec] | 6.12×10^6 | 6.12×10 ⁶ 5.62×10 ⁶ | 4.89×10 ⁶ | 4.89×10^6 4.10×10^6 5.01×10^6 | 5.01×10 ⁶ |
| PERFORMANCE RATIO (SEQUENTIAL = 1) | 1 | 0.91 | 08'0 | 0.67 | 0.82 |
| PERCENTAGE OF MEMORY USE [%] | 25 | 36 | 55 | 57 | 52 |

FIG. 20

SCHEDULING APPARATUS PERFORMING ...
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| | SEQUENTI AL | EQUENTIAL OUGUE SCUEDII INC. | Ⅱ | II ERARCHICAL SCHEDULING | IL ING |
|------------------------------------|----------------------|---|----------------------|---|----------------------|
| | EVECOION | WUEUE SUIIEDULINA | 80=25 | \$ 0=50 | 80=75 |
| TOTAL EXECUTION TIME [sec] | 5.68×10 ⁶ | 5.68×10 ⁶ 5.49×10 ⁶ | 5.12×10 ⁶ | 5.03×10^{6} 4.78×10^{6} | 4.78×10 ⁶ |
| PERFORMANCE RATIO (SEQUENTIAL = 1) | - | 0.97 | 06.0 | 0.88 | 0.84 |
| PERCENTAGE OF MEMORY USE [%] | 21 | 33 | 48 | 45 | 20 |

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